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Spectrometers: [Bruker IFS 66v](#) , [Bruker IFS 66v/S](#) , Nicolet.

Specifications

Unit#: 3083  
Detector area: 5.0 x 5.0 mm  
Filter cut-on frequency: 35 cm, black PE and wedged Fluorogold  
Outer vacuum window: wedged white coated PE with diamond scatter layer  
Operating temperature: 4.2 K  
**Operating range: 2 - 35<sup>1</sup>cm**  
G [ $\mu$ W/K] = 22.20  
R [k $\Omega$ ] = 6.5  
S [V/W] = 5.52 x 10<sup>3</sup>  
NEP [W/Hz<sup>1/2</sup>] = 4.62 x 10<sup>-13</sup>  
R [k $\Omega$ ] = 20 load

Dewar type: HDL-5  
Unit#: 3676  
Liquid He capacity: 1.2 l  
Liquid N<sub>2</sub> capacity: 0.9 l  
Liquid He hold time ~24 hours

Overview

When cooled to liquid helium temperatures, absorption of radiation by the hot electron bolometer is

Manufacturer: [Infrared Laboratories](#)  
Product catalog: [http://www.irlabs.com/pdf/science\\_technology\\_catalog.pdf](http://www.irlabs.com/pdf/science_technology_catalog.pdf)

<spectra>

<link to>How to change a detector?

<link to>How to attach the bolometer to Bruker spectrometers?

<link to>How to fill the bolometer with liquid He?